

A Review on Future Extraction of Images Using Different Methods

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Abstract: *This artical presents a study in image classification with different feature extraction techniques and it also compares traditional methods with deep learning models like CNNs and Vision Transformers. The main objectives were to improve accuracy and efficiency from real-world datasets throughout preprocessing, model training, and evaluations. CNN-based models, especially transfer learning and data augmentation, showed much better performance with respect to classical methods. Lightweight models like MobileNet were quite useful for applications in real time. The study finally concludes that deep learning is indeed offering the most accurate and scalable solutions in image classification, and future works will be targeting issues related to model interpretability and deployment in resource poor settings*

Keywords: Image Classification, Feature Extraction, Convolutional Neural Networks (CNNs), Transfer Learning

